



蜂蜜对阿昔洛韦在兔眼内转运动力学特性的影响

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中文摘要:目的:从药动学角度探索蜂蜜增强阿昔洛韦(ACV)治疗单纯疱疹病毒性角膜炎(HSK)药效的作用机制,为2药合用处方及给药方案设计提供依据。方法:分别单次给予兔眼内含5%蜂蜜和0%蜂蜜的日安眼膏,于不同时间取兔眼房水,高效液相色谱法测房水内ACV含量,建立数学模型,通过数学及统计学处理提取药动学参数,比较各参数差异。结果:含5%蜂蜜和0%蜂蜜的日安眼膏在兔眼内的转运均属于二室模型,含5%蜂蜜的日安眼膏在房水中吸收半衰期为不含蜂蜜日安眼膏的2.30倍,分布半衰期为2.12倍,达峰浓度为1.17倍,达峰时间为1.36倍,AUC为1.41倍。结论:蜂蜜可显著提高ACV在眼内的浓度及生物利用度,延长ACV在靶细胞内的作用时间,提高ACV在靶分子的滞留能力,使ACV在靶组织药效持久,从而提高疗效。

中文关键词:蜂蜜 阿昔洛韦(ACV) 单纯疱疹病毒性角膜炎(HSK) 高效液相色谱法(HPLC) 二室模型

Effects of honey to acyclovir in the rabbit eye transport kinetics

Abstract:Objective: Using pharmacokinetics to explore the mechanism of honey to enhance the efficacy of acyclovir (ACV) treatment of herpes simplex keratitis (HSK), providing the basis for combination of the prescription of two drugs and dosage regimen designed. Method: Single dosages of 5% honey and 0% honey Meyasu eye ointment are injected into rabbit eyes. The aqueous humor of rabbit eye is measured at different times, specifically the content of ACV in aqueous humor by HPLC. Mathematical models are established, from which pharmacokinetic parameters are extracted and compared by mathematics and statistics methods. Result: Both the 5% and 0% honey Meyasu eye ointment in rabbit eyes are belong to a two-compartment model. The absorption half-life of the 5% Meyasu eye ointment in aqueous humor is as 2.30 times longer, the distribution half-life is 2.12 times longer, the peak concentration is 1.17 times longer, the peak time is 1.36 times longer, AUC is 1.41 times longer when compared to the 0% Meyasu eye ointment. Conclusion: Honey can significantly increase the ACV concentration and bioavailability in the eye, extend the action time of ACV in target cells and increase the retention capacity of ACV in the target tissue; thereby improving treatment success.

keywords: honey acyclovir (ACV) HSK HPLC two-compartment model

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